

Amendments to the Claims

The listing of claims will replace all prior versions, and listings of claims in the application.

Listing of Claims:

1. (Currently Amended) A method for maintaining synchronization in a communication system wherein a central entity transmits a signal containing timing information to one or more remote devices, the one or more remote devices using the timing information for scheduling transmissions, the method comprising:

synchronizing a first symbol clock of a first transmitter in the central entity and a second symbol clock of a second transmitter in the central entity;

transmitting a first signal using a the first transmitter in the central entity to the one or more remote devices, wherein the first signal includes timing information based on the first symbol clock; and

upon termination of transmission of the first signal to the one or more remote devices, transmitting a second signal using a the second transmitter in the central entity to the one or more remote devices, wherein the second signal includes timing information based on the second symbol clock.

2. (Original) The method of claim 1, further comprising:

transmitting a notification message to the one or more remote devices indicating that the first signal will be terminated prior to the termination of transmission of the first signal.

3. (Currently Amended) A method for maintaining synchronization in a communication system wherein a central entity transmits a signal containing timing information to one or more remote devices, the one or more remote devices using the timing information for scheduling transmissions, the method comprising:

synchronizing a first symbol clock of a first transmitter in the central entity and a second symbol clock of a second transmitter in the central entity;

transmitting a first signal using a the first transmitter in the central entity to the one or more remote devices, wherein the first signal includes timing information based on the first symbol clock and data having a first forward error correction (FEC) alignment; and

upon termination of transmission of the first signal to the one or more remote devices, transmitting a second signal using a the second transmitter in the central entity to the one or more remote devices, wherein the second signal includes timing information based on the second symbol clock and data having a second FEC alignment that is synchronized with the first FEC alignment.

4. (Original) The method of claim 3, further comprising:

transmitting a notification message to the one or more remote devices indicating that the first signal will be terminated prior to the termination of transmission of the first signal.

5. (Currently Amended) A method for maintaining synchronization in a communication system wherein a central entity transmits a signal containing timing information to one or more remote devices, the one or more remote devices using the timing information for scheduling transmissions, the method comprising:

synchronizing a first symbol clock of a first transmitter in the central entity and a second symbol clock of a second transmitter in the central entity;

transmitting a first signal using a the first transmitter in the central entity to the one or more remote devices, wherein the first signal includes timing information based on the first symbol clock and data having a first forward error correction (FEC) alignment;

generating a second signal that includes timing information based on the second symbol clock and data having a second forward error correction (FEC) alignment;

transmitting calibration information relating to a difference between the first FEC alignment and the second FEC alignment to the one or more remote devices; and

upon termination of transmission of the first signal to the one or more remote devices, transmitting the second signal using a the second transmitter in the central entity to the one or more remote devices.

6. (Original) The method of claim 5, further comprising:
generating the calibration information by comparing the first FEC alignment to the second FEC alignment.
7. (Original) The method of claim 5, further comprising:
generating the calibration information, wherein generating the calibration information comprises generating first calibration data by comparing the first FEC alignment to a reference FEC alignment and generating second calibration data by comparing the second FEC alignment to the reference alignment.

8. (Original) The method of claim 5, further comprising:
transmitting a notification message to the one or more remote devices
indicating that the first signal will be terminated prior to the termination of transmission of
the first signal.

9. (Currently Amended) An apparatus in a communication system, the apparatus
comprising:

a first downstream transmitter adapted configured to transmit a first
downstream signal to one or more remote devices, wherein the first downstream signal
includes first timing information based on a first symbol clock of the first downstream
transmitter;

a second downstream transmitter adapted configured to transmit a second
downstream signal to the one or more remote devices in response to the first downstream
transmitter terminating transmission of the first downstream signal, wherein the second
downstream signal includes second timing information based on a second symbol clock of
the second downstream transmitter; and

a synchronization element adapted configured to synchronize the first symbol
clock and the second symbol clock.

10. (Previously Presented) The apparatus of claim 9, wherein the first
downstream transmitter transmits a notification message to the one or more remote devices
indicating that the first downstream signal will be terminated prior to termination of
transmission of the first downstream signal.

11. (Original) The apparatus of claim 9, wherein the apparatus is a cable modem termination system (CMTS).

12. (Currently Amended) An apparatus in a communication system, the apparatus comprising:

a first downstream transmitter adapted configured to transmit a first downstream signal to one or more remote devices, wherein the first downstream signal includes first timing information based on a first symbol clock of the first downstream transmitter and first data having a first forward error correction (FEC) alignment;

a second downstream transmitter adapted configured to transmit a second downstream signal to the one or more remote devices in response to the first downstream transmitter terminating transmission of the first downstream signal, wherein the second downstream signal includes second timing information based on a second symbol clock of the second downstream transmitter and second data having a second FEC alignment that is synchronized with the first FEC alignment; and

a synchronization element adapted configured to synchronize the first symbol clock and the second symbol clock.

13. (Previously Presented) The apparatus of claim 12, wherein the first downstream transmitter transmits a notification message to the one or more remote devices indicating that the first downstream signal will be terminated prior to termination of transmission of the first downstream signal.

14. (Original) The apparatus of claim 12, wherein the apparatus is a cable modem termination system (CMTS).

15. (Currently Amended) An apparatus in a communication system, the apparatus comprising:

a first downstream transmitter ~~adapted~~ configured to transmit a first downstream signal to one or more remote devices, wherein the first downstream signal includes first timing information based on a first symbol clock of the first downstream transmitter and first data having a first forward error correction (FEC) alignment;

a second downstream transmitter ~~adapted~~ configured to transmit a second downstream signal to the one or more remote devices in response to the first downstream transmitter terminating transmission of the first downstream signal, wherein the second downstream signal includes second timing information based on a second symbol clock of the second downstream transmitter and second data having a second FEC alignment; and

a synchronization element ~~adapted~~ configured to synchronize the first symbol clock and the second symbol clock;

wherein at least one of the first downstream transmitter and the second downstream transmitter is adapted to transmit calibration information relating to a difference between the first FEC alignment and the second FEC alignment to the one or more remote devices.

16. (Original) The apparatus of claim 15, further including a calibration element adapted to generate the calibration information by comparing the first FEC alignment and the second FEC alignment.

17. (Original) The apparatus of claim 15, further including a calibration element adapted to generate the calibration information by comparing the first FEC alignment to a

reference FEC alignment and by comparing the second FEC alignment to the reference alignment.

18. (Previously Presented) The apparatus of claim 15, wherein the first downstream transmitter transmits a notification message to the one or more remote devices indicating that the first downstream signal will be terminated prior to termination of transmission of the first downstream signal.

19. (Original) The apparatus of claim 15, wherein the apparatus is a cable modem termination system (CMTS).